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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	-
09/800,609 03/07/2001		John David Begin	60314-196	7492	•
	7590 07/21/2005		EXAM	INER	
Kenneth M.	Berner		LEE, BEN	JAMIN C	
Lowe Hauptr	nan Gilman & Berner, LLP				
1700 Diagonal Road, Suite 300			ART UNIT	PAPER NUMBER	
Alexandria, VA 22314			2632		•

DATE MAILED: 07/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	,	Application No.	Applicant(s)		
		09/800,609	BEGIN, JOHN DAVID		
	Office Action Summary	Examiner	Art Unit		
		Benjamin C. Lee	2632		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
THE No Exter after after find the Failure Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed will be considered timely. the mailing date of this communication. 0 (35 U.S.C. § 133).		
Status					
1)🖂	Responsive to communication(s) filed on 17 Fe	<u>bruary 2005</u> .			
2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.			
3)	Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the merits is		
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.		
Dispositi	on of Claims				
4)⊠	Claim(s) 1-4 and 6-16 is/are pending in the app	lication.			
•	4a) Of the above claim(s) is/are withdraw	n from consideration.			
· —	5) Claim(s) is/are allowed.				
	6) Claim(s) <u>1-4 and 6-16</u> is/are rejected.				
	7) Claim(s) is/are objected to.				
8)[_]	Claim(s) are subject to restriction and/or	election requirement.			
Application	on Papers				
-	The specification is objected to by the Examiner		•		
	The drawing(s) filed on is/are: a)☐ acce				
	Applicant may not request that any objection to the c		- ·		
	Replacement drawing sheet(s) including the correction		• • • • • • • • • • • • • • • • • • • •		
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.		
Priority u	nder 35 U.S.C. § 119				
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau ee the attached detailed Office action for a list of	have been received. have been received in Application ty documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage		
		Commod Copied Hot receive	u.		

Attachment(s)

1)	ш	Notice of	Ket	erences	Cited ((P1O-892)
	\Box					•

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _

Otatement(s)	(10-1449	01 F 1 0/36/00)	
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4) 🔲	Interview Summary (PTO-413)
	Paper No(s)/Mail Date

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____.

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Response to Arguments

Claim Status

1. Claims 1-4 and 6-16 are pending.

Claim Rejections - 35 USC § 103

- 2. Claims 1-4, 6, 9-11 and 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA, pages 1-2 of Applicant's specification) in view of Weiberle et al. (EP1147929A1) as stand in the previous Office action.
- 3. Claims 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA in view of Weiberle et al. as stand in the previous Office action.
- 4. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA in view of Weiberle et al. and Shimizu et al. (US Pat. No. 5,115,238) as stand in the previous Office action.
- 5. Claims 8 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA in view of Weiberle et al. and Kato et al. (US Pat. No. 5,796,613) as stand in the previous Office action.

Response to Arguments

- 6. Applicant's arguments filed 2/17/05 have been fully considered but they are not persuasive.
- 1) The Office action rejection has complied with Graham vs. John Deere examination procedures, including the detail explanation of how the prior art references are combined to meet or render obvious every claimed limitation, and the motivation for such combination. As indicated by Applicant, motivation for combination of prior art references must stem from some teaching, suggestion or implication in the prior art as a whole or knowledge generally available

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to one having ordinary skill in the art, in which the latter is relied on by the Office action rejection of claims 1-4, 6, 9-11 and 13, for example, as is apparent from the Office action rejection, which is based on the ground that the primary teaching of Applicant's Admitted Prior Art (AAPA) teaches the claimed invention of propagating a previous position to a current position in a vehicle navigation system using pitch, heading, sped, roll and their respective changes information, except specifically determining the pitch from longitudinal and vertical acceleration information but instead uses a separate gyro (in addition to the use of accelerometers) to determine pitch and roll, while Weiberle et al. teaches the known determination of pitch and roll information using longitudinal, vertical and lateral acceleration without the use of information from a gyro. The Office action rejection further stated that in view of these two teachings, it would have been obvious to one of ordinary skill in the art at the time of the claimed invention since vehicle pitch and roll information for use in position propagation determination in a system/method as taught by AAPA can also be determined from the longitudinal, vertical and lateral acceleration information from the accelerometer as taught by Weilberle et al., the gyro for determining vehicle pitch and roll information can be eliminated to reduce the number of sensor element (i.e. by eliminating the use or need of the gyro) and (associated) connections and thus associated cost and maintenance efforts. The modification from AAPA of using the (multi-axis) accelerometer (a sensor element) and a gyro (another sensor element) to using only the accelerometer of the combined teaching of AAPA and Weiberle et al., which changes from 2 sensor elements to only one sensor element (when using a multi-axis type accelerometer), clearly constitutes a case of reduction of the number sensor elements, and thus their associated required connections, and associated cost and maintenance

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efforts, since all additional hardware (in this case the additional sensor element and associated connections) requires the associated additional cost, and maintenance over time to keep it operating properly. Therefore, the Office action has in fact already sufficiently addressed all of the issues raised by Applicant in the Remarks, and Applicant's arguments are as a result not deemed persuasive.

- 2) Applicant's remaining arguments directed to the remaining claims are all based on the above already addressed issues by stating that the additional prior art used in the remaining prior art combinations also based on AAPA and Weiberle et al. do not overcome the alleged deficiencies stated above. Since the above allegations have been rebutted, Applicant's arguments regarding the remaining claims are also not deemed persuasive.
- 3) In conclusion, Applicant's arguments are not deemed persuasive, and the Office action rejection is maintained.

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin C. Lee whose telephone number is (571) 272-2963. The examiner can normally be reached on Mon -Fri 11:00Am-7:30Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Wu can be reached on (571) 272-2964. The fax phone number for the organization where this application or proceeding is assigned is 571-272-8300

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Benjamin C. Lee Primary Examiner Art Unit 2632

B.L.